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CENTRAL INTELLIGENCE AGENCY

REPORT

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SUPPLEMENT TO

50X1-HUM

REPORT NO.

COUNTRY

Czechoslovakia

SUBJECT

Uranium Ore Mining in the Jachymov Area

PLACE ACQUIRED

DATE OF INFO.

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2. The Jachymov Mines are controlled by a Directorate General at Jachymov which is organized into two inspectorates. A third inspectorate was possibly in existence at Marianske Lazne. Inspectorate I was located at the Svornost Mine in Jachymov, and supervised the following mines: Svornost, Rovnost I, Rovnost II including Mines 14 and 11, Josefka, Popov, Eva, and Eduard. Inspectorate II was located at the Bratrstvi Mine and supervised the following mines: Bratrstvi, Elias, Barbora, Zlaty Vrch, Plavno and Holzbach. The Jachymov uranium mining installation also included the so-called Oddeleni Technicke Kontroly (OTK) (Technical Control Department) in Vykanov. Major uranium mining districts were, allegedly, in existence near Pribram and Marianske Lazne. Mines No 19 and 21 near Zadni Chodov were said to belong to the latter uranium ore district. An independent district was formed by the uranium mines near Horni Slavkov.

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2. The ore mined was classified as follows:

"Smolka"	-	best quality, with "collector"(ore-testing device) deflections 400 to 600 (for measuring these values, the "collector" had to be switched several times)
"Ruda"	-	with "collector" deflections from 100 to 400
"A"-material	-	" " " " 70 to 99
"U"-material	-	" " " " 50 to 69
"II"-material	-	" " " " 20 to 49
"I"-material	-	" " " " 1 to 19

I-material was discarded; the other material was forwarded to the OTK.

The existence of feldspar (živec), red dolomite (cervený dolomit), talc (matek), and the discharge of reddish water indicate the presence of uranium ore. The ore is found in northern and eastern lodes and in round lumps of ore (čůsky). The color of the pure ore is gray-black to black. The lodes have thicknesses of from 1 mm. to 50 cm; the lumps have diameters of up to 50 cm. Ore-containing rock may be distinguished from dead rock by the weight or by a scratching test. When scratched with the finger nail, dead rock shows white traces, while ore-containing rock does not show any traces when scratched. The ore is usually contained in the following minerals: spar, talc schist, dolomite, "mydlak", quartz, and silicates. The ore was trucked to the OTK.

3. The Svornost Mine was the oldest shaft in the Jachymov district and was supervised by Eng. Kalab (fnu). The shaft had 12 levels, the eighth being connected with the Rovnost I Mine. The dead rock of the latter was removed through the Svornost Mine, which was 600 meters deep and had a work force of about 1,000 laborers, including 500 convicts and 50 women who worked in three 8-hour shifts. No details were available on the quantity of the ore mined there.
4. The Rovnost I Mine, an old installation, was headed by a Russian of undetermined name. The name of the Czech supervisor was Vrana (fnu); his deputy was one Bila (fnu). The mine had 13 levels and had a total depth of 900 meters. Two thousand workers, including 1,200 convicts, worked in three shifts. A total of 300 to 320 boxes of assorted material were hauled daily to the OTK by two Tatra trucks. The mine, especially its eighth level, is very rich in ore. A considerable quantity of bismuth was found but was discarded. An expert stated that the material which had been dumped years ago would yield more uranium ore than that from the mine itself.
5. The Rovnost II Mine is a small mine which began operations in 1952. Chief of the installation was a Russian named Titkov (fnu). The Czech chief was one Zaborec (fnu). The mine had four working levels; a fifth was being abandoned. The mine had a depth of 250 meters and a labor force of 450 men. No details on the output were available.

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6. Mine 11, a three-level installation, was put into operation in 1952. Since the mine was sunk in soft rock, work was hampered by cave-ins and flooding. The mine was supplied with compressed air by the Rovnost I Mine. A total of 50 to 60 men worked there. They were supplied with tools from the Rovnost II Mine. No sorting installation was available. The radioactivity of the material was tested by a "collector", packed into boxes, and trucked to the sorting installation of the Bratrstvi Mine.
7. Mine 14, which was put into operation in 1949, had three levels and a labor force of about 250 men. No "smolka" material was mined. A connection to the Rovnost II Mine was under construction at the second level.
8. The Josefka Mine was interconnected with the Svornost Mine, to which the work force of the Josefka Mine belonged. The miners of the Svornost Mine rode in through the Josefka Mine. High-grade ore was packed in boxes and trucked to the OTK in Vykmánov; medium-grade ore was brought to the sorting station in Bratrstvi, and dead rock was dumped at the Mine.
9. Technical installations at the Eduard Mine were similar to those at the Rovnost Mine I. The mine was said to be rich in ore. High-grade ore was packed in boxes and trucked to the OTK; lower-grade ore was hauled to the sorting installations of the Elias Mine. The 600 convicts of the Nikolai prison camp and 300 to 500 civilian workers were employed at the installation.
10. The Popov Mine was built in 1952 and had a labor force of 100 workers. The mine was not yet in operation. Material, which was said to be of high grade, was obtained only from boring operations for new galleries. The ore was sorted at the Bratrstvi Mine.
11. The Bratrstvi Mine was the oldest mine and was controlled by a Russian. The installation consisted of 11 levels, 50 meters apart; the total depth was 600 meters. The mine was connected with the Tomas Mine. The extracted material was of high quality. About 1,000 convicts and 500 civilian workers were employed at the mine. Work was also done on Sundays and holidays. In the main, convicts were employed in the new and old ore-washing plants.
12. The Elias Mine was somewhat smaller than the Bratrstvi Mine and was connected with the Barbora Mine. The work force numbered about 1,500 men. An ore-washing plant similar to that at the Bratrstvi Mine was available. However, the number of ore washing tables available was less than at the Bratrstvi Mine.
13. The Barbora Mine was under construction. No sorting installation was available. The work force numbered about 700 men.
14. Work on the construction of the Zlatý Vrch Mine started during the second half of 1953. The work force numbered about 130 men.
15. The Plavno and Holzbach Mines located near Vykmánov were new. Plavno had 6 levels and Holzbach 5. Only civilian workers were employed there.

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16. In 1953, five mines were built over an ore lode called Margareta, near Plavno village, 5 km east of Jachymov. Although the elevator towers were completed, no uranium ore was mined at that time. The mines had the following locations:

Mine 9, about 2,500 meters west of Plavno near the woods
 Mine 14, about 700 meters west of Plavno
 Mine 16, about 450 meters west of Plavno
 Mine 17, about 450 meters from Plavno
 Mine 18, about 700 meters northwest of Plavno.

17. The old ore-dressing plant at the Bratrstvi Mine had a theoretical processing capacity of 50 carloads in eight hours. In 1953, this capacity was increased to 80 carloads and was scheduled to be increased to 100 carloads in 1954. The old sorting station processed a total of 5,670 tons of ore per month, which was laid down in the production program. As regards the quality of the ore processed, the production plan was not fulfilled 100 percent. Two Tatra 111 trucks hauled the material to Vykanov daily. Half of each truckload consisted of boxes, the other half of barrels. A total of 300 boxes and 300 barrels were daily shipped out. The amount of coarse material was slightly higher than that of concentrates I and II. The weight fluctuated according to the radioactivity of the material. The Elias ore-washing plant had the same capacity for coarse material as the Bratrstvi installation, while the latter had a higher capacity for processing concentrates.

18. The workers were classified in the following eight wage categories.

I and II: Workers not employed at mines
 III : Workers employed at mines, but aboveground
 IV : Personnel working underground as engine drivers, ore testers and at the pumps
 V : Assistants of miners in "vystupy" (Aufstieg)(?)
 VI : Assistants of miners in "predky" (Stollenvorteil)(?)
 VII : Miners not specialized in demolition and excavation work
 VIII : Miners specialized in demolition and excavation work.

Basic wages per hour varied between 3.70 and 9.70 Czech crowns when work norms were fulfilled. Work norms were fixed according to working conditions at the mine and equipment available. At the end of each month, the performance of the individual worker was calculated. The workers received special allowances for housing, underground work, etc. In addition they got premiums for radioactive material mined, namely 8 Czech crowns for "smolka", 4 for ore and "A"-material, and 0.40 for "U"-material. If the work norm was exceeded by 20 percent a special bonus was paid. These bonuses amounted to 4 Czech crowns per hour. The monthly wages therefore were as follows (in Czech crowns):

	Minimum	Average	Maximum
Miners (breaker)	1,500	2,000	5,000
	1,700		
Assistants	1,300	1,700	4,000

1. Comment: The "collector" has been previously reported as a Geiger-counter operator.

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Annex: Leading Personnel of Uranium Ore Mines in the Jachymov Area

Enclosure: 13 sketches, with legends, of mines in Jachymov area (38 pages)

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Leading Personnel of Uranium Ore Mines in the Jachymov Area1. General Management

Dipl. Ing. Sindler (fnu) General manager, [redacted] Czech, [redacted] 50X1-HUM

Libusa Dunkova Female secretary, [redacted] 50X1-HUM

Jirka Povolna In charge of transportation, [redacted] 50X1-HUM

[redacted] Monthly salary, 3,600 Czech crowns.

2. Inspectorate I

Dipl. Ing. Kalab (fnu) Chief, mechanical engineer, [redacted] 50X1-HUM

[redacted] 50X1-HUM

Marie Jandova Female secretary, [redacted] 50X1-HUM

Bohumil Eliasek Personnel chief of the Svornost, Rovnost II, XI and XIV Mines, [redacted] 50X1-HUM

Anna Jirovska Chief of the Mechanical Department of the Svornost Mine, [redacted] 50X1-HUM

Dudas (fnu) Chief of the workers' council at the Rovnost I Mine, [redacted] 50X1-HUM

Vrana (fnu) Supervisor of the Rovnost I Mine; he is also supervisor of the Vrchlabi Mine near Kutna Hora. 50X1-HUM

Frantisek Bila Deputy supervisor of the Rovnost I mine.

"Collectors" (ore-testing personnel) at the Rovnost I Mine: 50X1-HUM

Mrs. Hesova (fnu) [redacted] ethnic German, [redacted] 50X1-HUM

Vera Zrnikova [redacted] 50X1-HUM

Fanda Zornikova [redacted] 50X1-HUM

Mizzi Liesnerova [redacted] 50X1-HUM

Zaborec (fnu) In charge of labor safety at Rovnost II Mine and Mines Nos. XIV and XI, [redacted] 50X1-HUM

Mrs. Polakova (fnu) Chief of the Personnel Department for the Rovnost II Mines Nos. XIV and XI, [redacted] 50X1-HUM

Dipl. Ing. Jan Krejca Supervisor in Mine No. XIV, Slovak, [redacted] 50X1-HUM

Kovac (fnu) Deputy supervisor in Mine No. XIV, [redacted] 50X1-HUM

Josef Hruza Mechanic, [redacted] 50X1-HUM

Votava (fnu) Foreman, [redacted] 50X1-HUM

Bilek (fnu) [redacted] 50X1-HUM

Skupien (fnu) Chief of the Shop Trade Union Council at Mine No. XIV, Czech, [redacted] 50X1-HUM

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Vesely (fnu)

A member of the Shop Trade Union Council, [redacted]

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3. OTK Vykmanov II

Frantisek Bures

Chief shipping clerk, [redacted]

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Blanka Buresova

Secretary of the directorate of the Karlovy Vary
bakeries (wife of Frantisek Bures).

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Vaclav Komenda

Chemist, [redacted]

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Jaroslav Sova

Chief of the Shop Trade Union Council at the repair
plant for ore-testing devices in Ostrov, [redacted]

4. Inspectorate II at the Bratrstvi Mine

Chief of the Trade Department was a Russian of
undetermined name.

Vera Zlamalova

Female secretary of the Chief of the Trade Depart-
ment, [redacted]

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Vaclav Kohout

Chief of the garages for trucks at Dolni Zdar, [redacted]

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Krasnov (fnu)

Chief of the Traffic Department of the Directorate
General of mines, [redacted]

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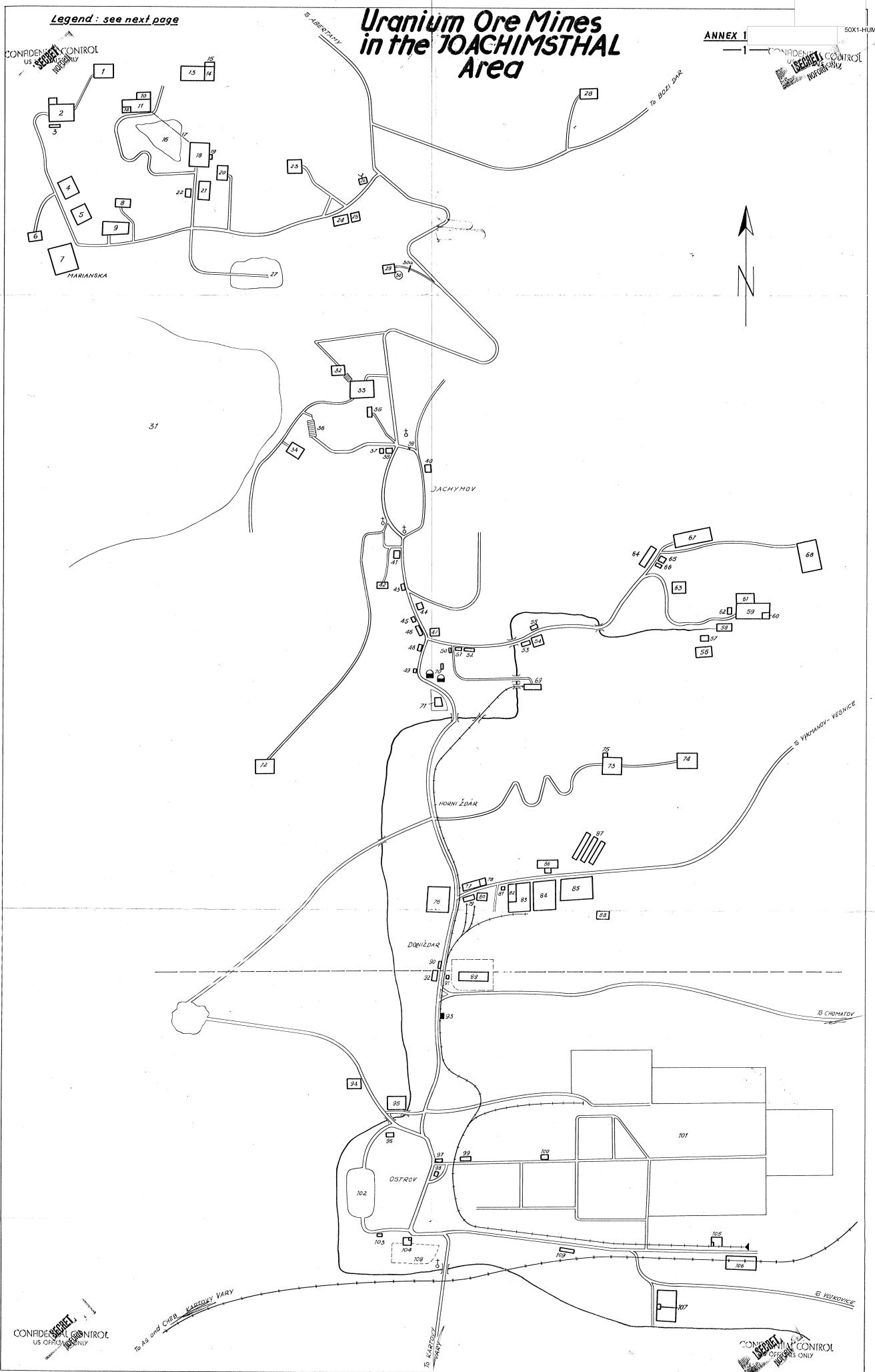
Uranium Ore Mines in the JOACHIMSTHAL Area

ANNEX 1

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Location Sketch of Uranium Ore Mine in the Joachimsthal Area.Legend:

- 1 Mine No XII, (Rovnost II)
- 2 EVA-Marianska mine
- 3 Marianska STB quarters
- 4 Marianska forced labor camp
- 5 Marianska STB quarters
- 6 Marianska STB quarters, formerly a cloister, with prison cells on the ground floor
- 7 Marianska workers' settlement consisting of about 50 log houses
- 8 Mine No XI, (Rovnost II)
- 9 Rovnost II Mine
- 10 Elias forced labor camp
- 11 Elias camp
- 12 Elias ore sorting plant
- 13 Barbora Mine
- 14 Barbora forced labor camp
- 15 STB office
- 16 Large dump of Rovnost I
- 17 Rubber belt conveyor
- 18 Rovnost I Mine
- 19 Quarters of Rovnost I STB
- 20 Mine No XIV, (Rovnost II)
- 21 Rovnost I forced labor camp
- 22 STB quarters for Rovnost I camp

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- 23 Eduard Mine
- 24 Nikolaĵ forced labor camp
- 25 Nikolaĵ STB quarters
- 26 Forester's station
- 27 "Novy Svet" workers' settlement consisting of about 50 log houses
- 28 Zlaty Vrch Mine
- 29 Quarters of a PS utvar
- 30 Pond
- 30a Road block
- 31 Main dump of the Svornost Mine
- 32 Svornost forced labor camp
- 33 Svornost Mine
- 34 Josefka Mine
- 35 PX, formerly a school
- 36 Wooden staircase, access to Svornost Mine
- 37 Svornost STB quarters
- 38 Town hall
- 39 Terminal of the Karlsbad-Joachimsthal bus line
- 40 "Nornicky dum", miners' house
- 41 Fuel dump
- 42 Svornost STB quarters
- 43 School
- 44 Union Hotel, used by Soviet personnel
- 45 PS headquarters
- 46 STB station with garages

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Attachment 1

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- 47 STB clubhouse, formerly Hotel Praha
- 48 STB alert garage
- 49 SNE and STB station
- 50 "TEP" stores
- 51 Soviet club house
- 52 STB headquarters, garage and prison
- 53 Former tobacco factory, used as garages for sedans
- 54 Central administration of the Joachimsthal mines
- 55 Former tobacco storage used as a test laboratory
- 56 Tomas gallery of the Bratrstvi Mine
- 57 Ore sorting plant of the Bratrstvi Mine
- 58 New ore sorting plant of the Bratrstvi Mine
- 59 Bratrstvi Mine
- 60 Old ore sorting plant of the Bratrstvi Mine
- 61 Forced labor camp of the Bratrstvi Mine
- 62 STB Bratrstvi quarters
- 63 Bozi Sen Mine, not in operation. The galleries of the mine were used for the storage of explosives
- 64 STB garages
- 65 Office of STB personnel at the Bratrstvi Mine
- 66 Soviet offices for the Bratrstvi Mine
- 67 Forced labor camp of the Bratrstvi Mine
- 68 STB barracks for the Bratrstvi District, Oblast Jizera, "Hestrab" department
- 69 Jachymov railroad station

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- 70 Jachymov radium spa
- 71 Radiumpalace Hotel
- 72 Popov Mine
- 73 Plavno Mine
- 74 Holzbach Mine
- 75 STB quarters for the Plavno and Holzbach Mines
- 76 Parking site for busses
- 77 Central garage and repair shop for trucks at Horni Zdar
- 78 Parking site for trucks
- 79 Boiler house for central heating system of garages
- 80 Check point for trucks leaving the area
- 81 Main transformer station for Dolni Zdar (OTK Vykmanov)
- 82 Vykmanov II forced labor camp
- 83 Main OTK Vykmanov (Dolni Zdar)
- 84 Vykmanov I forced labor camp
- 85 Vykmanov STB quarters
- 86 Offices of STB Vykmanov
- 87 Billets for STB dependents
- 88 Vykmanov nationalized estate
- 89 Central material depot for mines in the Joachimsthal area, also called "Kravin".
- 90 Control point at the beginning of Bratrstvi, occupied by PS and STB personnel
- 91 PS telephone exchange

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Attachment 1

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- 92 Parking lot for vehicles engaged in control missions
- 93 Stop of the local railroad line running to Dolni Zdar
- 94 Barracks installation occupied by infantry soldiers. Red epaulets were seen.
- 95 Quarters for miners
- 96 STB headquarters
- 97 Filling station
- 98 Billets for STB dependents
- 99 Football field
- 100 School
- 101 Block of dwelling houses for miners. Soviets and Czechs lived there
- 102 Main square at Ostrov
- 103 Main post office
- 104 Ostrov town hall
- 105 Recruiting office for the entire district
- 106 Ostrov railroad station
- 107 Central control station and repair shop for collectors
- 108 Park
- 109 PS quarters

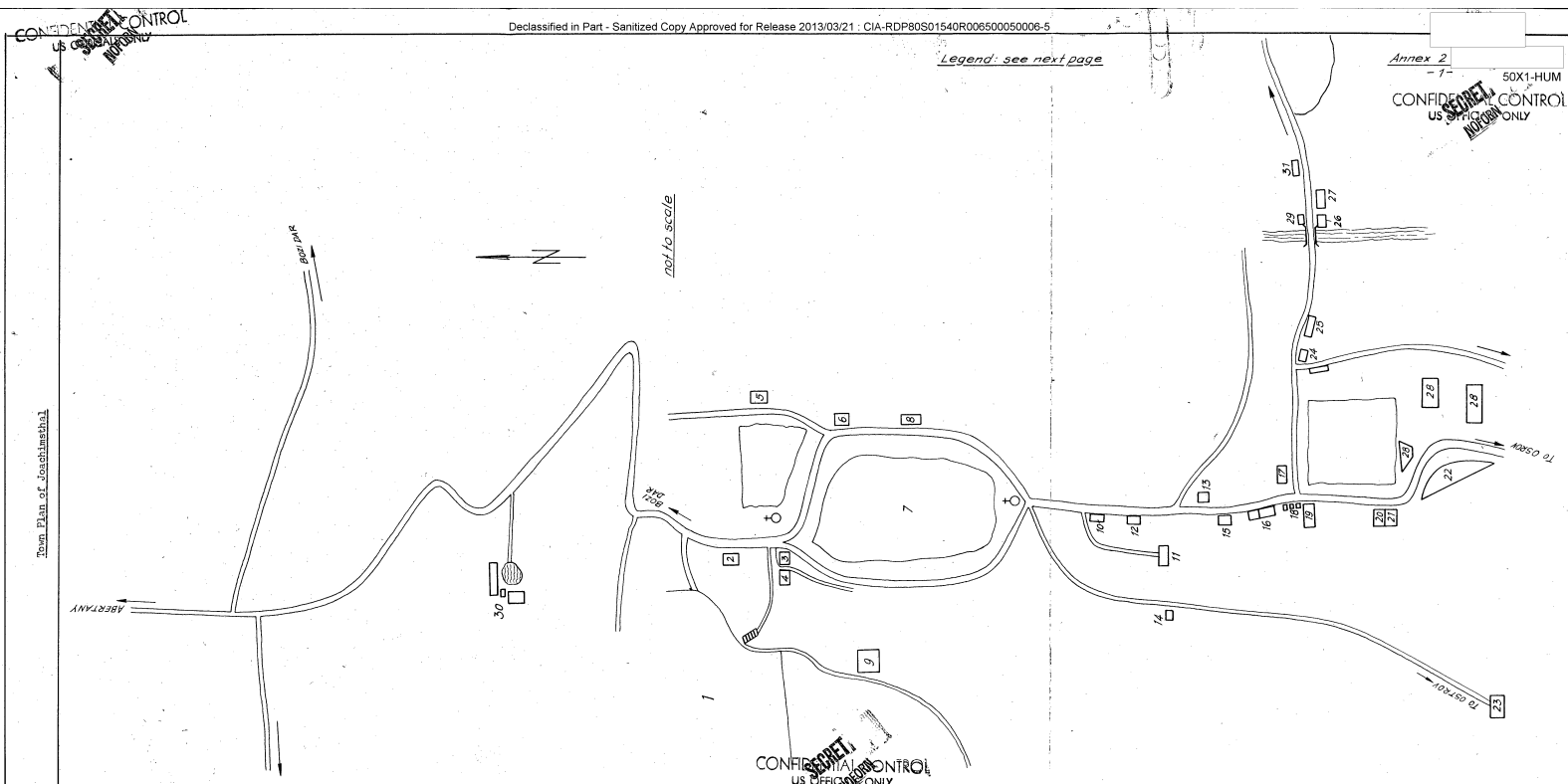
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Attachment 2

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Sketch of Joachimsthal

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Legend:

- 1 Svornost Mine
- 2 PX of Svornost Mine, previously a school
- 3 Town hall, housing the people's court and the district people's committee
- 4 STB office for guard personnel of the Svornost Camp
- 5 Three-story building, issued textiles, food and shoes to personnel employed in mines, Soviet offices.
- 6 Billeting offices for the uranium ore mining district
- 7 Park
- 8 Miners' house and recreation center
- 9 Josefka mine, belonging to the Svornost Mine
- 10 Fueling station for trucks
- 11 STB quarters, three-story buildings and two wooden one-story buildings. The STB guard personnel for the Svornost mine wore red epaulets, khaki uniforms and visor-type caps with a red band. The personnel quartered there was estimated at 200 men. The leader of the detail was said to be one Lieutenant Polak (fnu), who lived in house No VI/1
- 12 Elementary school
- 13 Union Hotel for Soviet personnel
- 14 One-story dwelling house with garage, occupied by Mrs. Jirovska (fnu), chief of the machinery department of the Svornost Mine
- 15 Three-story villa, occupied by a PS detail. The house was guarded. There was a garage in the backyard
- 16 STB quarters, garage and small motor vehicle repair shop
- 17 Four-story corner house, formerly Hotel Praha, STB recreation center offices and mess halls.

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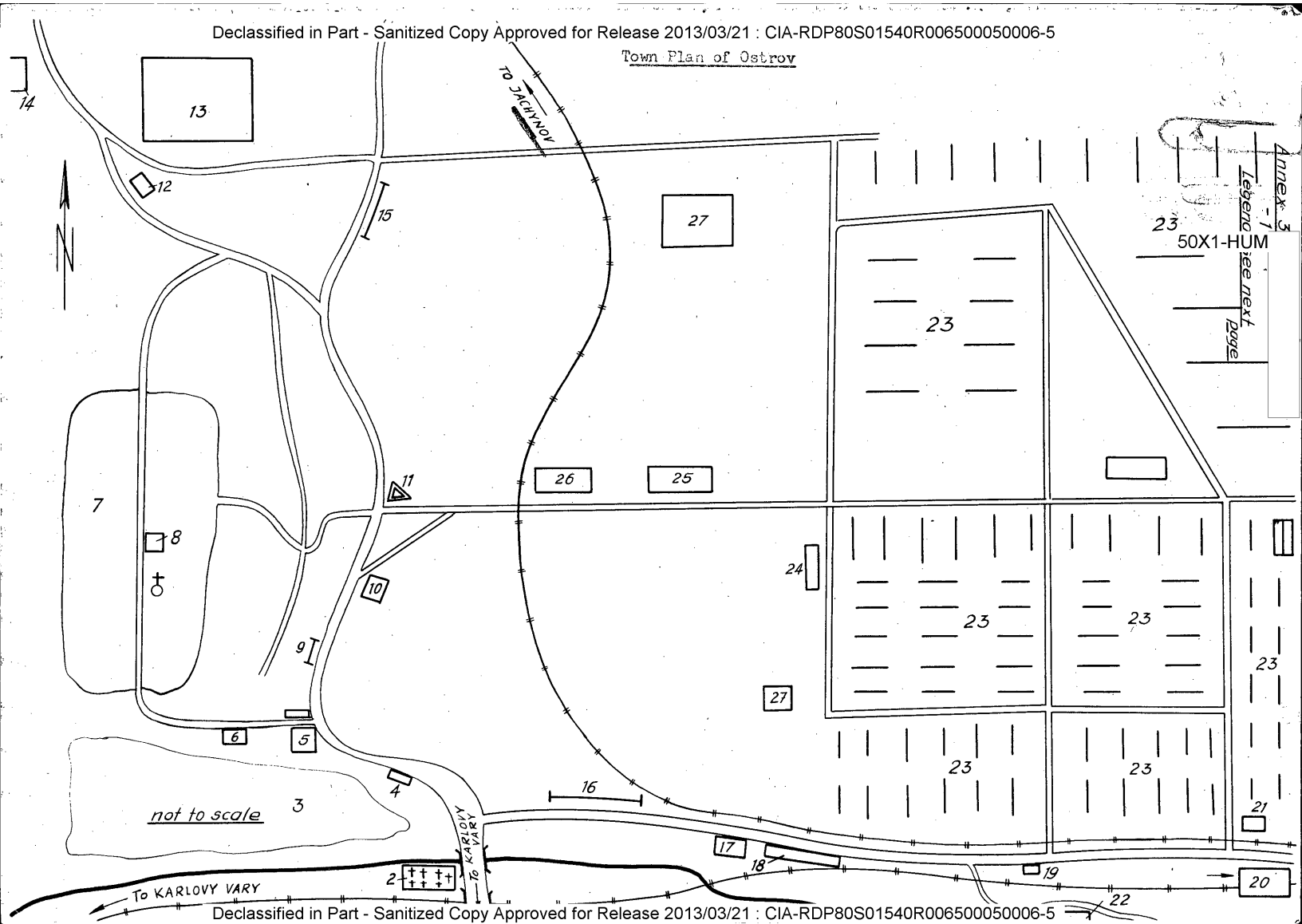
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- 18 Civilian filling station
- 19 STB alert parking site and garage. About 10 model Tatra 111 and 5 to 6 model Skoda Tudor vehicles were permanently parked there
- 20 One-story building occupied by "Okresni ustava narodniho zdravi" (district health institute)
- 21 STB and SNB offices. The STB personnel wore red, the SNB personnel blue service color
- 22 Radiumpalace Hotel, used by high-ranking party members
- 23 Popov Mine
- 24 Soviet recreation center, erected in 1950
- 25 STB headquarters with garage and prison cells in the basement. The house was guarded.
- 26 Several brick garages used for sedans
- 27 General management of the mines in the Joachimsthal area
- 28 Radium spa
- 29 Local headquarters of the Czech Communist Party
- 30 PS quarters, two new single-story wooden buildings and a small brick garage. On the road leading to the highway, there was a wooden barrier. On the highway there was a signboard warning against possible spies
- 31 A complex of buildings, previously a tobacco storage plant, now a testing laboratory.

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Town Plan of Ostrov



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Sketch of OstrovLegend:

- 1 Former brewery used for the storage of motor vehicles operating for the mines in the Joachimsthal area
- 2 Cemetery
- 3 Park
- 4 "Na myslivne" Inn
- 5 Town hall
- 6 Post office
- 7 Main square with church
- 8 Old town hall now housing an inn and a hotel
- 9 Bus stop of line to Karlsbad
- 10 Dwelling house occupied by STB dependents
- 11 Filling station
- 12 One-story villa, offices and STB quarters
- 13 Quarters for miners
- 14 Barracks installation occupied by an army unit. Soldiers with red epaulets and several artillery pieces were seen there in the summer of 1953
- 15 Stop of the "starobinec" bus line
- 16 Terminal of the bus line serving the individual mines
- 17 Sawmill
- 18 About 20 log houses occupied by PS dependents
- 19 "Na ruzku" Inn

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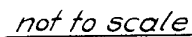
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- 20 Ostrov railroad station
- 21 Receiving station for new miners, offices, PX and STB station
- 22 Two porcelain factories, one of them used for the repair of equipment for the so-called collectors (ore testers)
- 23 Settlement for miners and employees
- 24 PX
- 25 School
- 26 Football field
- 27 Boiler house for the central heating plant of the settlement

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ANNEX 4



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Attachment 4

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Legend:

- 1 Watch tower
- 2 Double wire fence, 2 meters high, with electric lights, 5 meters apart
- 3 Gate No 2
- 4 Gate No 1
- 5 Four-story building, housing personnel department, cadre department, workers council, Communist party offices, technical management
- 6 Guard house
- 7 Narrow-gauge, track for electric trolleycars
- 8 Workshops, locksmith's shop, a forge and an electric shop
- 9 One-story wooden building, issue of mine lamps and of metal tags which each miner must have when he enters the mine
- 10 Three-story villa, offices of Inspectorate I
- 11 Compressor station
- 12 Machinery house of the hoisting plant. The electric power is furnished from a power station in the GDR or from the "Ervin" power station near Duchcov
- 13 Hoisting frame with two single-story mine cages
- 14 Ore sorting plant
- 15 Guardhouse of the factory police
- 16 Four one-story wooden buildings, housing cloakrooms for miners
- 17 One-story wooden building, cloakrooms for foremen
- 18 Flow of radioactive material
- 19 Direction to the dump for waste material
- 20 Route taken by trucks to the OTK

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Annex 5

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Layout of the Rowmost II Mine

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not to scale

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Attachment 5

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Layout of the Rovnost I MineLegend:

- 1 Main gate
- 2 Worker's entrance
- 3 Guardhouse and dual barbed wire fence
- 4 One-story brick building; Guardhouse, check point
- 5 Three-story villa, 20 x 20 meters square, occupied by Inspectorate I of the Svornost Mine, only Soviet personnel worked in this building; chief of the inspectorate was an MVD major
- 6 Compressor station serving the Rovnost II Mine and Mine No 14
- 6a Two-story building erected in 1952
- 7 Two-story brick building, 30 meters square, workshop
- 8 Single-story brick building, 40 x 20 meters, workshops
- 8a Issue of so-called "collectors"
- 9 Saemill with four saws, one-story building
- 10 Main transformer station
- 11 Main STB guardhouse
- 12 One-story brick building, 30 x 20 meters, machine house
- 13 Hoist frame
- 14 One-story brick building, 40 x 30 meters, sminer's cloak room
- 15 One-story wooden building, 30 x 20 meters, offices of foremen, doctor's station, office of the workers' council
- 16 One-story wooden building, repairshop for grinding and boring machines
- 17 Ore testing station

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Attachment 5

50X1-HUM

- 3 -

- 18 Wooden gallery
- 19 Ore sorting station for "amolka" ore and "A" material
- 20 Ore sorting station for "U II" and "I" materials
- 21 Cooling tower, about 30 meters high
- 22 To the dump
- 23 To the ore sorting station near the Elias Mine
- 24 Dump
- 25 To the Elias Mine

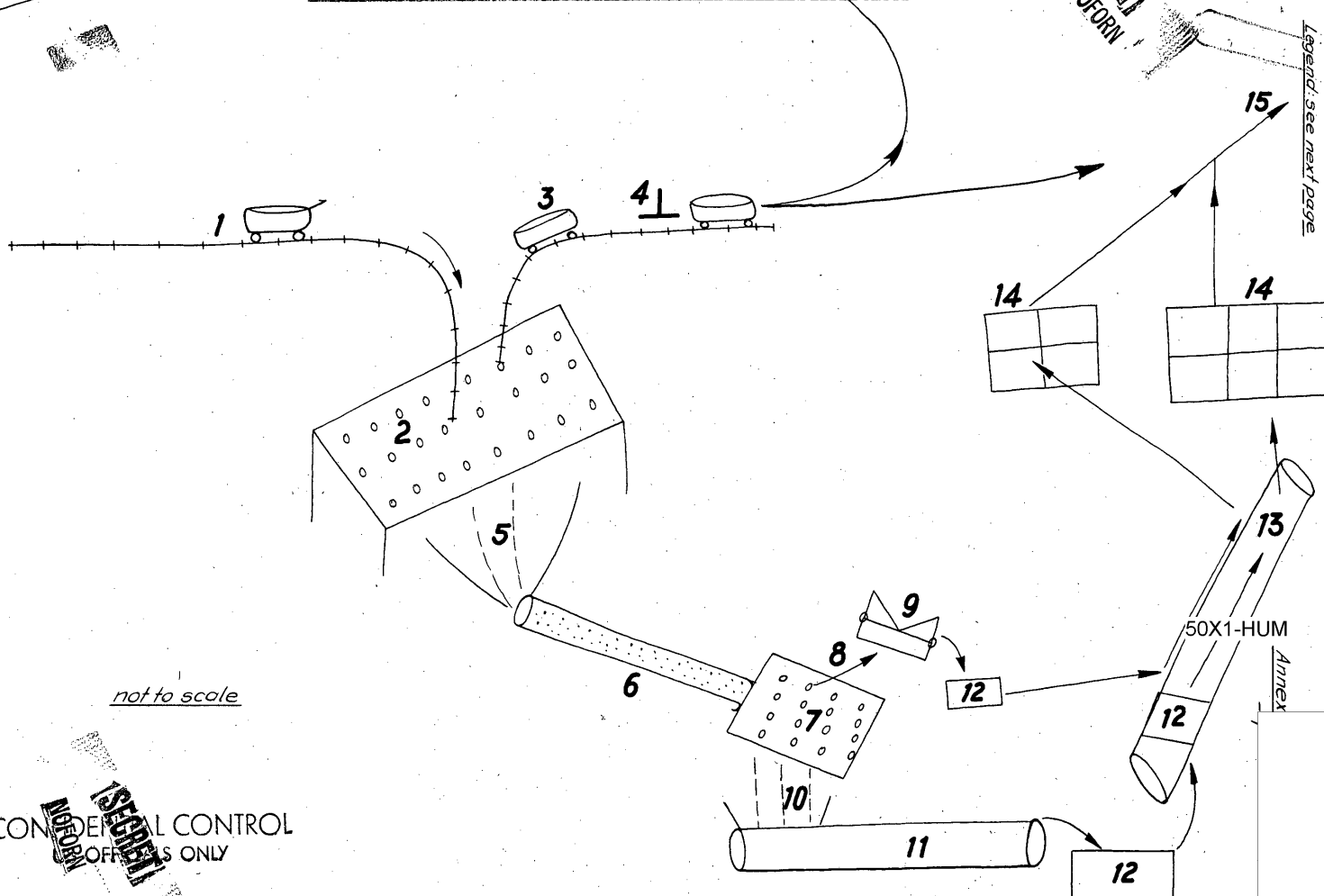
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Layout of the Rough Ore Sorting Plant at the Svornost Mine

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Legend: see next page



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Attachment 6

50X1-HUM

- 2 -

Layout of the Rough Ore Sorting Plant at the Svornost Mine

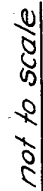
Legend:

- 1 Route taken by vehicles carrying radioactive material
- 2 Shaking table with holes, 3 cm in diameter
- 3 Route of ore lumps which did not pass through the holes of the shaking table
- 4 Ore testing station (the ore was either shipped to the OTK or returned to the mine)
- 5 Ore which passed through the shaking table
- 6 Conveyer belt
- 7 Second shaking table fitted with holes, 1.8 cm in diameter
- 8 Material which did not pass through the holes in the shaking table
- 9 Tipping cars
- 10 Ore that passed through shaking table No 2
- 11 Conveyer belt
- 12 Boxes which receive the sorted material
- 13 Conveyer belt
- 14 Storage of boxes loaded with ore
- 15 Route taken by trucks which take the ore loaded in boxes to the OTK at Vykmánov

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Ore Sorting Station at the Rovnsto I Mine

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Attachment 7

- 2 -

Ore Sorting Station at the Rovnost I Mine

Legend:

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- 1 Main station for the determination of the radioactivity of uranium ore
- 2 Route taken by "smolka" material, ore, and "A" material. The sorted material is packed in boxes
- 3 Boxes containing different sizes of ore lumps and
- 4
- 5 Route taken by trucks which carry the ore to the OTK at Vykmanov
- 6 Route taken by "U" material
- 7 Chute
- 8 Conveyor belt
- 9 Geiger counters
- 10 Route taken by ore of low radio activity
- 11 Route taken by trucks loaded with ore of low radioactivity
- 12 Route taken by ore of high radioactivity
- 13 Conveyor belt to the ore sorting station at the Elias Mine
- 14 Route taken by grade-II material. The ore sorting process is fully automatic

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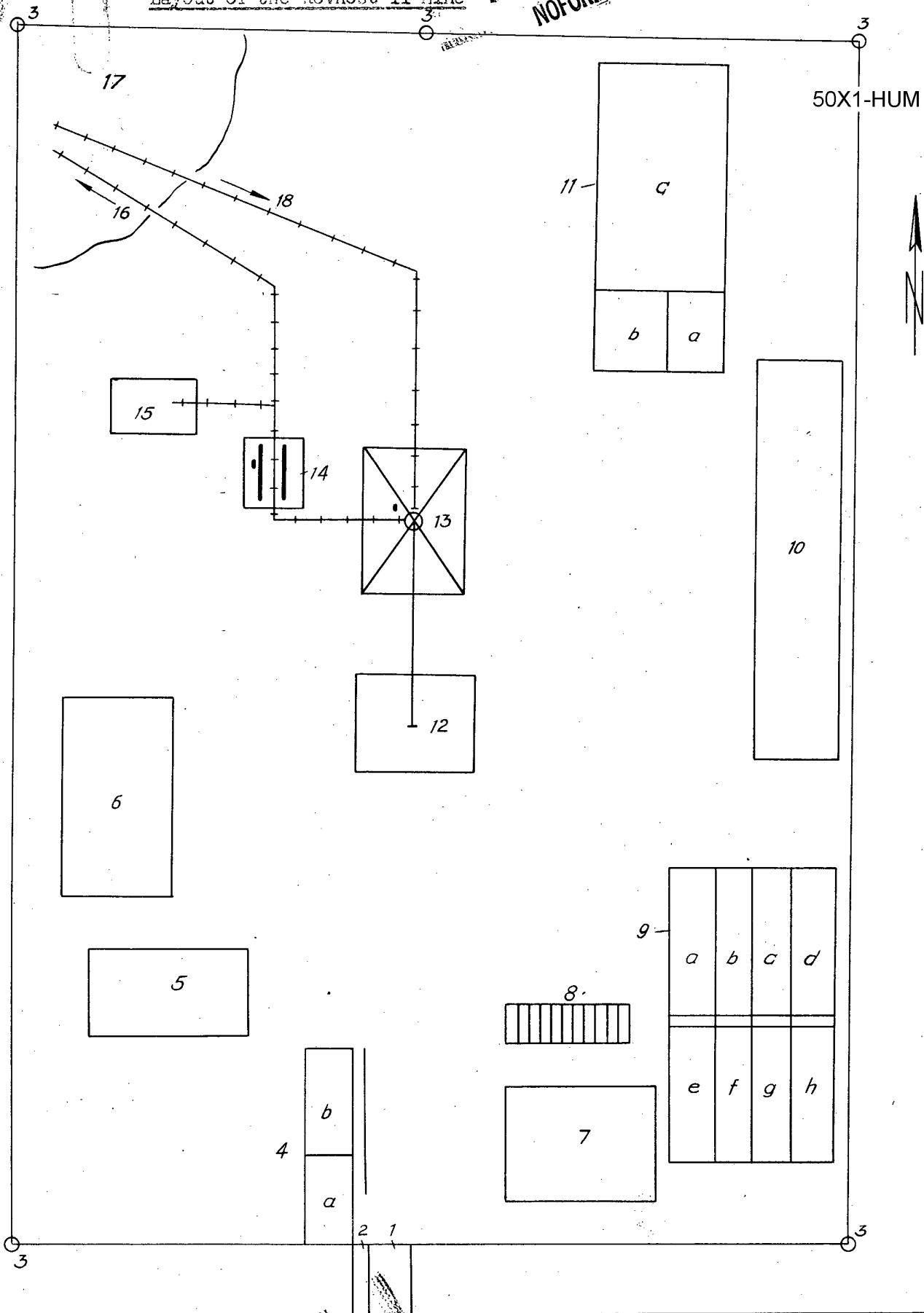
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Annex 8

- 1 -

Layout of the Rovnost II Mine**SECRET**
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Attachment 8

- 2 -

50X1-HUM

Layout of the Rovnost II MineLegend:

- 1 Gate
- 2 Workers' gate
- 3 Watch tower and dual barbed wire fence
- 4 Guard house and workers' check point, single-story brick building
- 5 Transformer station
- 6 Cooling tower
- 7 Single-story wooden building, PX
- 8 Wooden staircase
- 9 Single-story wooden building, 40 x 10 meters
 - a. Office of Soviet Engineer Titkov (fnu), chief of the mine
 - b. Office of Zaborec (fnu), Czech chief of the mine
 - c. Workers' council
 - d. KSC
 - e. Geological department, only Soviet personnel allowed
 - f. Collector department
 - g. Personnel department, Mrs. Polakova (fnu) worked there
 - h. Conference hall
- 10 One-story brick building, 50 x 10 meters, workshop
- 11 One-story wooden building, 40 x 15 meters
 - a. Classroom

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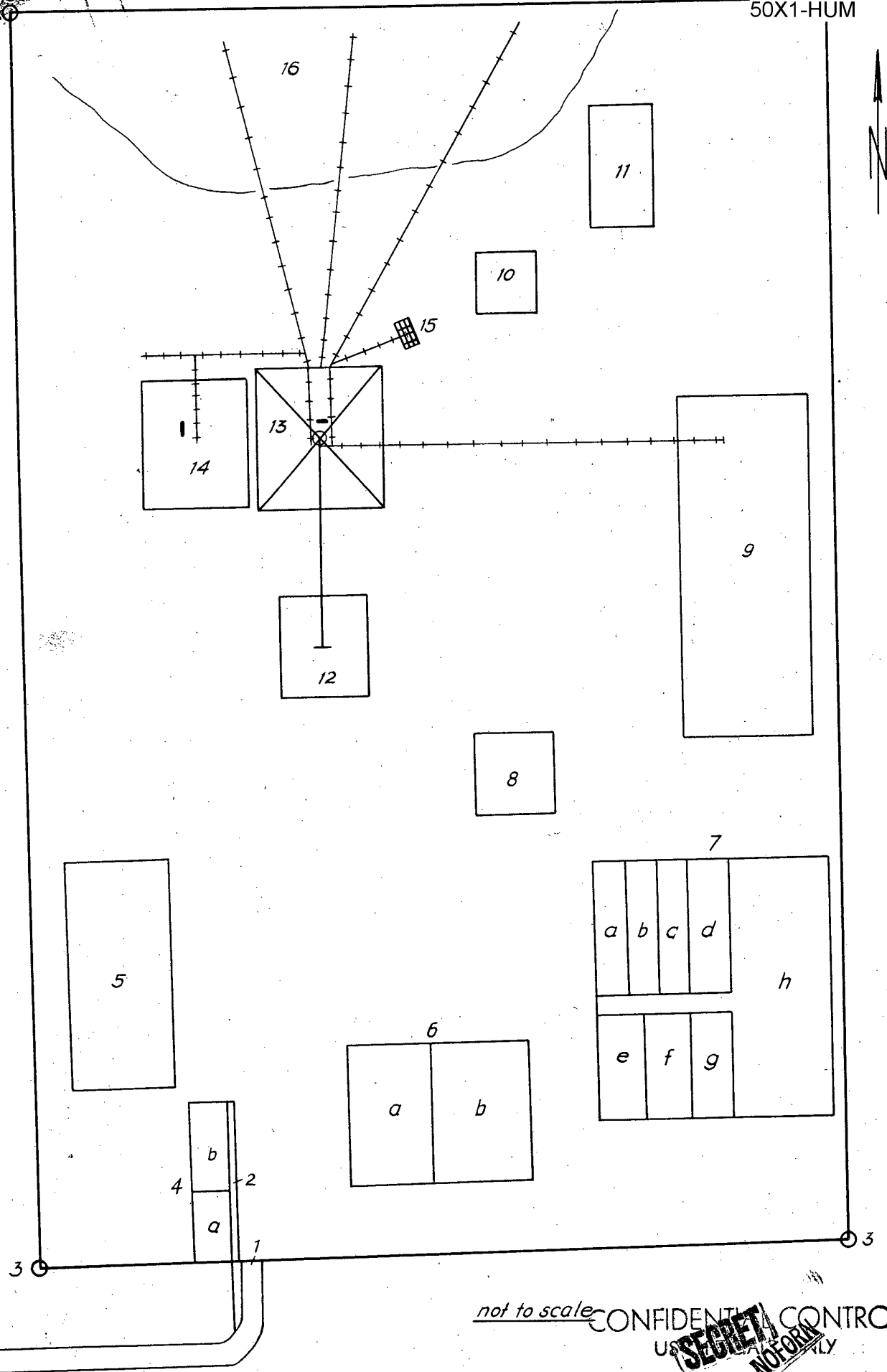
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Attachment 8
- 2 -

50X1-HUM

- b. Office of the chief of the explosives department
- c. Workers' cloakroom
- 12 One-story brick building, 30 x 15 meter, machine house
- 13 Hoist frame, with collector station on top of it
- 14 Main ore testing station
- 15 Ore sorting station
- 16 Route taken by waste material
- 17 Dump
- 18 Route taken by returning mine cars

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Attachment 9

50X1-HUM

- 2 -

Layout of Mine No 14

Legend:

- 1 Gate
- 2 Workers' gate
- 3 Watch towers and dual barbed wire fence
- 4 One-story wooden building, guard house and worker's check point
- 5 One-story wooden building, PX
- 6 One-story wooden building, issue of tools and lamps
- 7 One-story wooden building, 30 x 15 meters
 - a. Office of Engineer Krejca (fmu), Czech chief of the mine
 - b. Office of the work shop
 - c. Workers' council
 - d. KSC
 - e. Office of the chief of the explosives department
 - f. Offices for foremen
 - g. SCM conference room
 - h. Workers' cloak room
- 8 Concrete basin for cooling water
- 9 One-story brick building, workshops
- 10 Transformer station
- 11 Explosives dump
- 12 One-story brick building, 20 x 15 meters, machine house
- 13 Hoist frame with collector station on top
- 14 Sorting station for "A" and "U" materials

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Attachment 9

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- 3 -

15 Crushing plant for grade-II material

16 Dump for waste material and "J" material

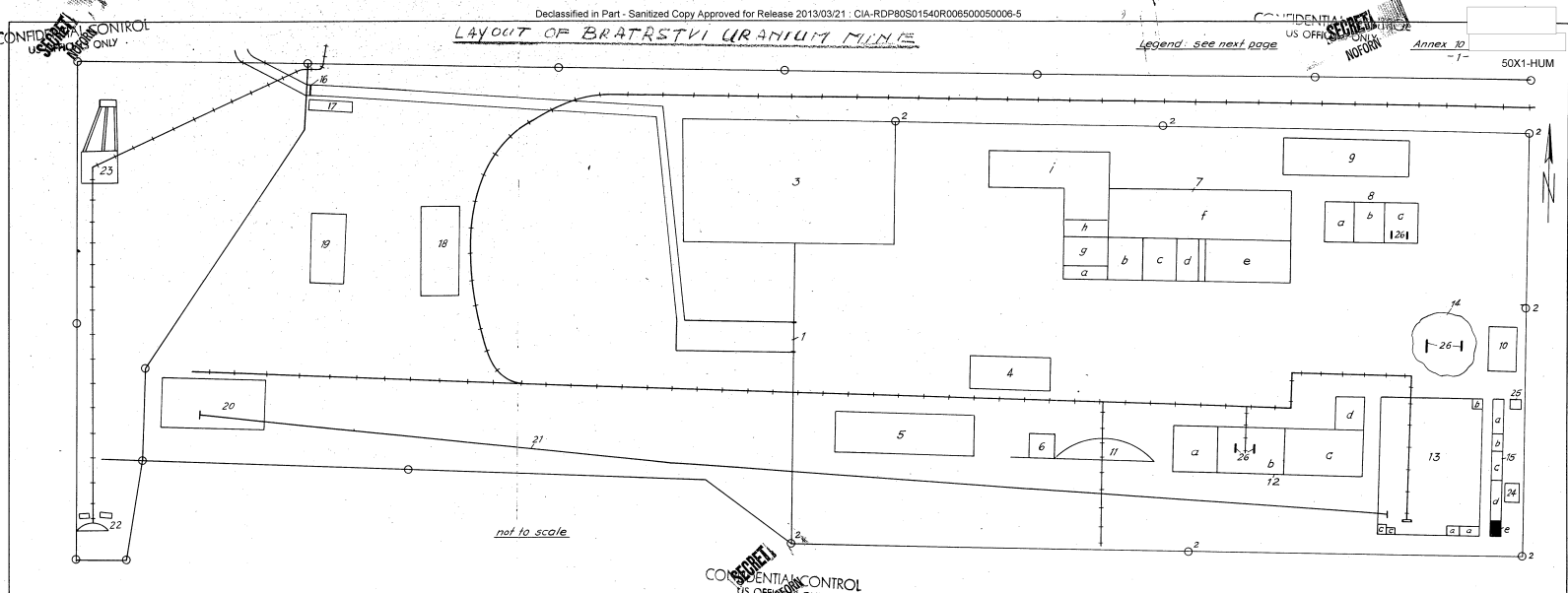
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LAYOUT OF BRATSTVI URANIUM MINE

Legend: see next page

Annex 10

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50X1-HUM

- 2 -

Layout of Bratrstvi Uranium MineLegend:

- 1 Gate
- 2 Watch tower and dual barbed wire fence
- 3 Forced labor camp
- 4 Two-story brick building, PX and offices
- 5 One-story brick building, erected in 1952, compressor station
- 6 One-story brick building, issue of lamps
- 7 Two-story brick building
 - a. Workers' check point
 - b. Dentists
and
 - c.
 - e. Offices for foremen
 - f. Conference room
 - g. Finance department
and
 - h.
 - i. Workers' cloak rooms

The building also housed the workers' council, the KCS, and offices of the geological department

8. One-story brick building with ramp
 - a. Office of the main storage department
 - b. Storage of tools
 - c. Mechanical preparation of the so-called "Grelus" samples
9. One-story brick building, workshops of the main storage department

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Attachment 10

- 3 -

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- 10 Three-story villa, Inspectorate II
- 11 Main entrance gallery to the mine. The machinery house and the hoisting installation is underground, about km from the entrance of the gallery.
- 12 Three-story brick building
 - a. Section occupied by workers' council and the Communist party organization
 - b. Ore sorting plant
 - c. Workshop
 - d. Pumping installation for ore sorting plant
13. Five-story brick building, ald washing plant
- 13a Two long drying ovens
- 13b Boiler room
- 13c Two 2-story steam drying ovens
- 14 Ore dump
- 15 Single-story brick and wooden building
 - a. Soviet office of OTK
 - b. Offices of the controllers and chiefs of workshops
 - c. Storage of replacement parts: for ore sorting stations
 - d. Office
 - e. Main ore sorting station
- 16 Main gate
- 17 One-story wooden building, guard house and worker's check room
- 18 Three new single-story wooden buildings, quartering facilities for about 200 STB personnel

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Attachment 10

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- 4 -

- 19 Sawmill with three saws
- 20 One-story brick house, completed in late 1952, new washing plant
- 21 Wooden chute with side walls from the old to the new ore sorting station. The chute conveys the ore crushed by ball crushers. The ore is mixed with water
- 22 Main entrance gallery to the Tomas Mine. It is located on a mountain about 800 meters high
- 23 Ore sorting plant of the Tomas Mine
- 24 Single-story wooden building
- 25 Single-story wooden building, storage of ore
- 26 Geiger counters

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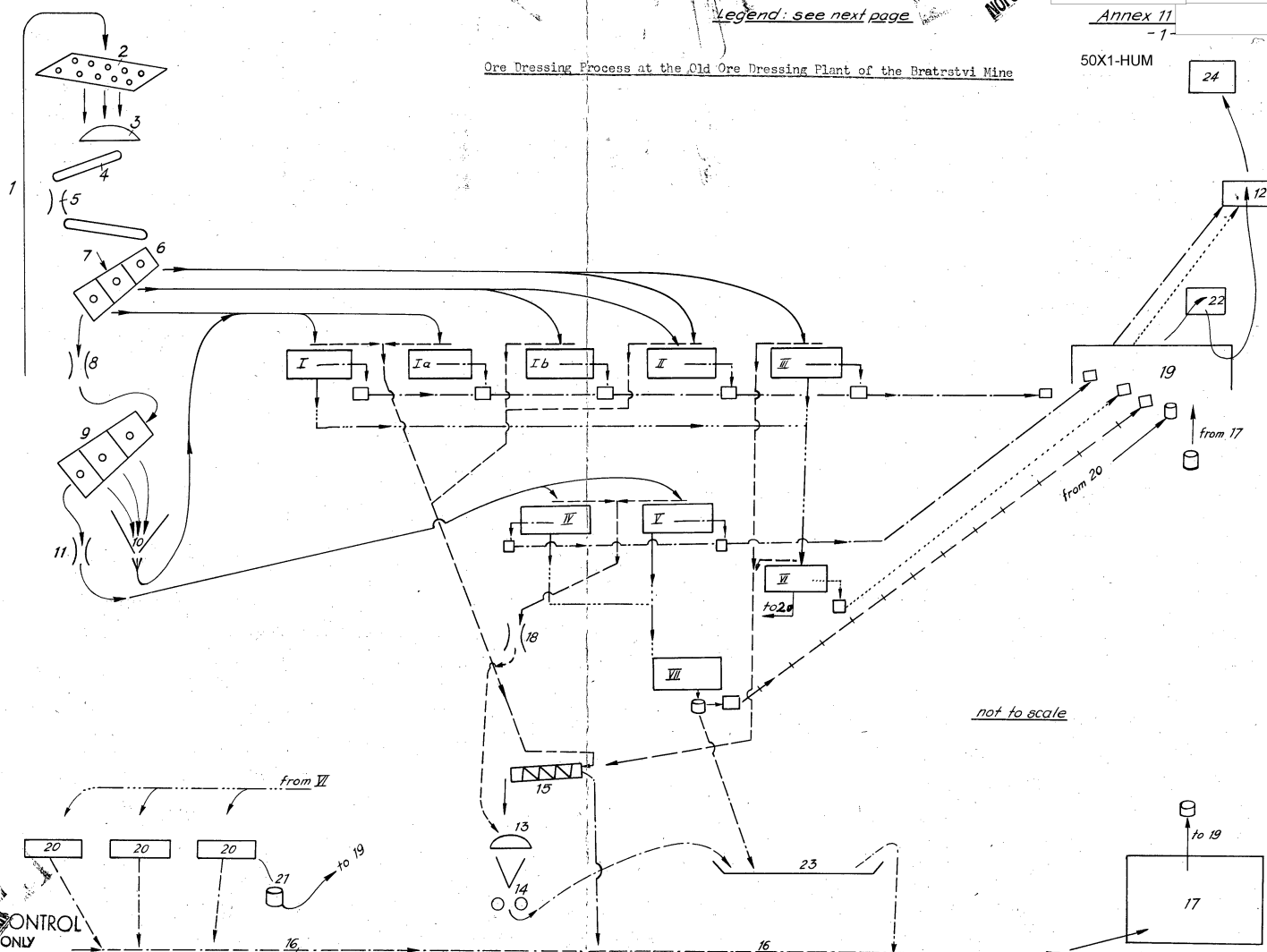
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Annex 11
- 1 -

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Ore Dressing Process at the Old Ore Dressing Plant of the Bratsvri Mine



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 - 2 -

50X1-HUM

Ore Dressing Process at the Old Dressing Plant of the Bratrstvi Mine.

Material processed at the old ore dressing plant of the Bratrstvi Mine included "U" and grade-II ore from the Bratrstvi Mine and ore lumps of medium radioactivity shipped to the plant from other mines. "Smolka" and "A" material were sorted at the sorting plant and shipped from there to the OTK. Grade "A" and "B" material was stored on one heap. This ore is of medium radioactivity and consists of lumps with a diameter of up to 15 cm. The radioactivity of the ore was tested by means of a "collector" at the dump. From 800 to 900 kg of ore were loaded on cars which were hoisted to the third floor of the ore dressing plant.

Legend:

- 1 Hoist
 - 2 Sorting tables with holes, 9 cm in diameter
 - 3 Heap of sorted ore
 - 4 Conveyor belt
 - 5 First crushing unit, which crushes the ore to lumps, 5 to 6 cm in diameter
 - 6 Rotary cone-shaped sieves with three units for different sizes of ore lumps
 - 7 Flow of crushed ore which is mixed with water
 - 8 Second ore crushing unit which crushes the ore lumps which did not pass through the holes of the rotatable sieve into lumps 4 cm in diameter
 - 9 Second rotary sieve fitted with holes of uniform sizes
 - 10 Container which collects the ore that passed through the sieve
 - 11 Third ore crushing unit which crushes the ore that did not pass through sieve No 3 to lumps, 2 cm in diameter
- I, Ia, Ib, II and III: boxes collecting the ore from rotary sieve No 1
- IV and V : boxes collecting the ore from the third ore crushing unit

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Attachment 11

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- 3 -

- VI : box receiving the fine-crushed ore from boxes I through III
- VII : box receiving the crushed ore from boxes IV and V.
- 12 Shipping point for ore packed in boxes
 - 13 Dump for ore which did not have the prescribed radioactivity
 - 14 Ball mill
 - 15 Worm gear conveyor, coarse material was dumped onto the heap (item No 13)
 - 16 Wooden chute for fine-crushed ore
 - 17 New ore washing plant, brick and wooden building, about 100 x x 80 meters
 - 18 Crushing plant processing the ore from boxes IV and V
 - 19 Ore testing station for ore from box VI
 - 20 Ore washing facilities for fine-crushed ore from box VI
 - 21 Metal drums for radio active material (concentrate I)
 - 22 Drying ovens
 - 23 Main basin for crushed ore

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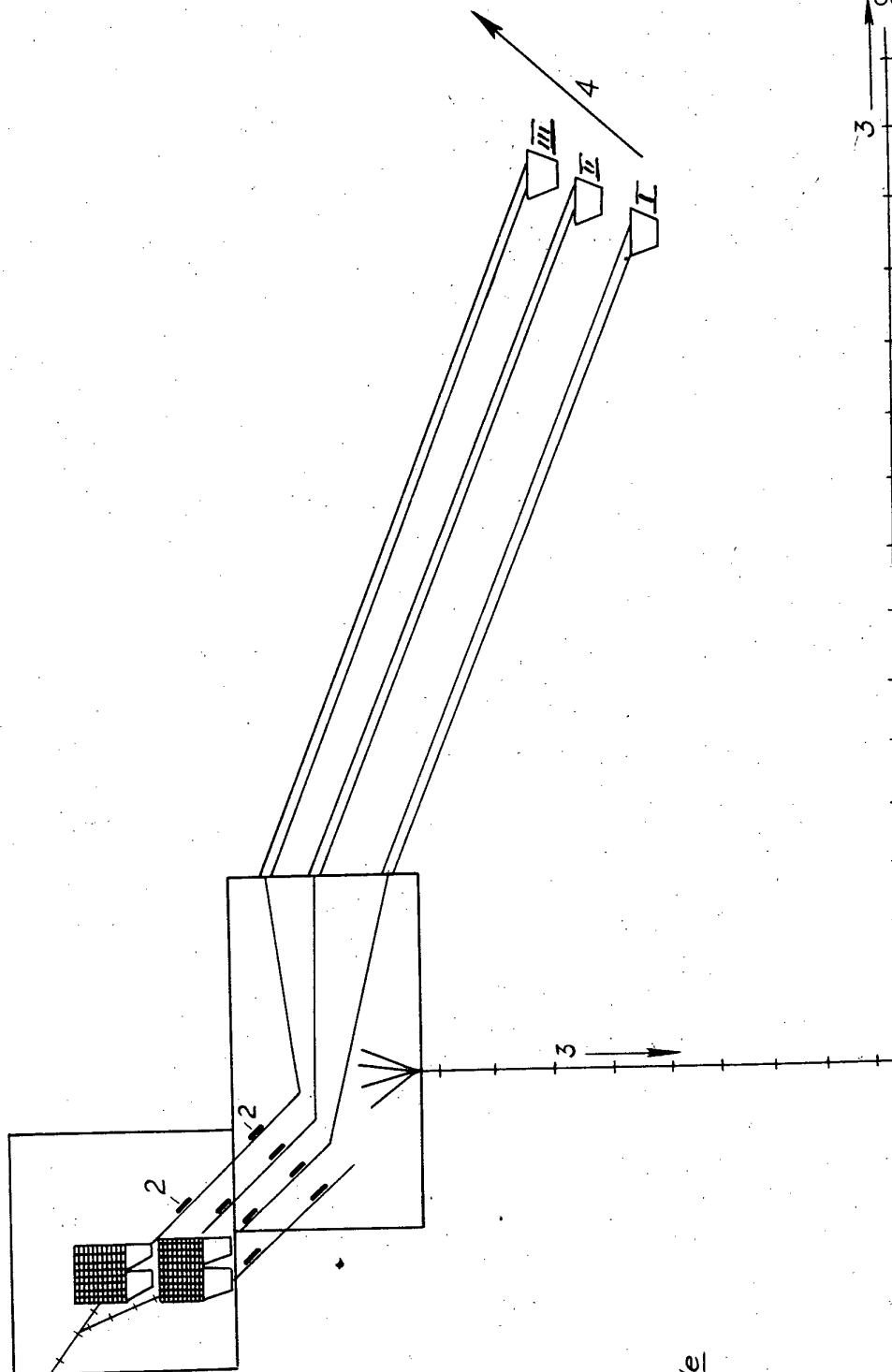
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Annex 12

- 1 -

Ore Sorting Plant at the Tomas Mine

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Attachment 12

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- 2 -

Ore Sorting Plant at the Tomas Mine

Legend:

- 1 Route of arriving ore
- 2 Geiger counters with which the ore is classified
- 3 To the dump
- 4 Route of trucks carrying the ore to the OTK Vykmanov

Note: Ore of low radioactivity was designated "grade-I" material, ore of medium radioactivity grade-II material, and ore of high radioactivity grade-III material. Grade I, II, and III-material was shipped in bulk and not packed in boxes or containers.

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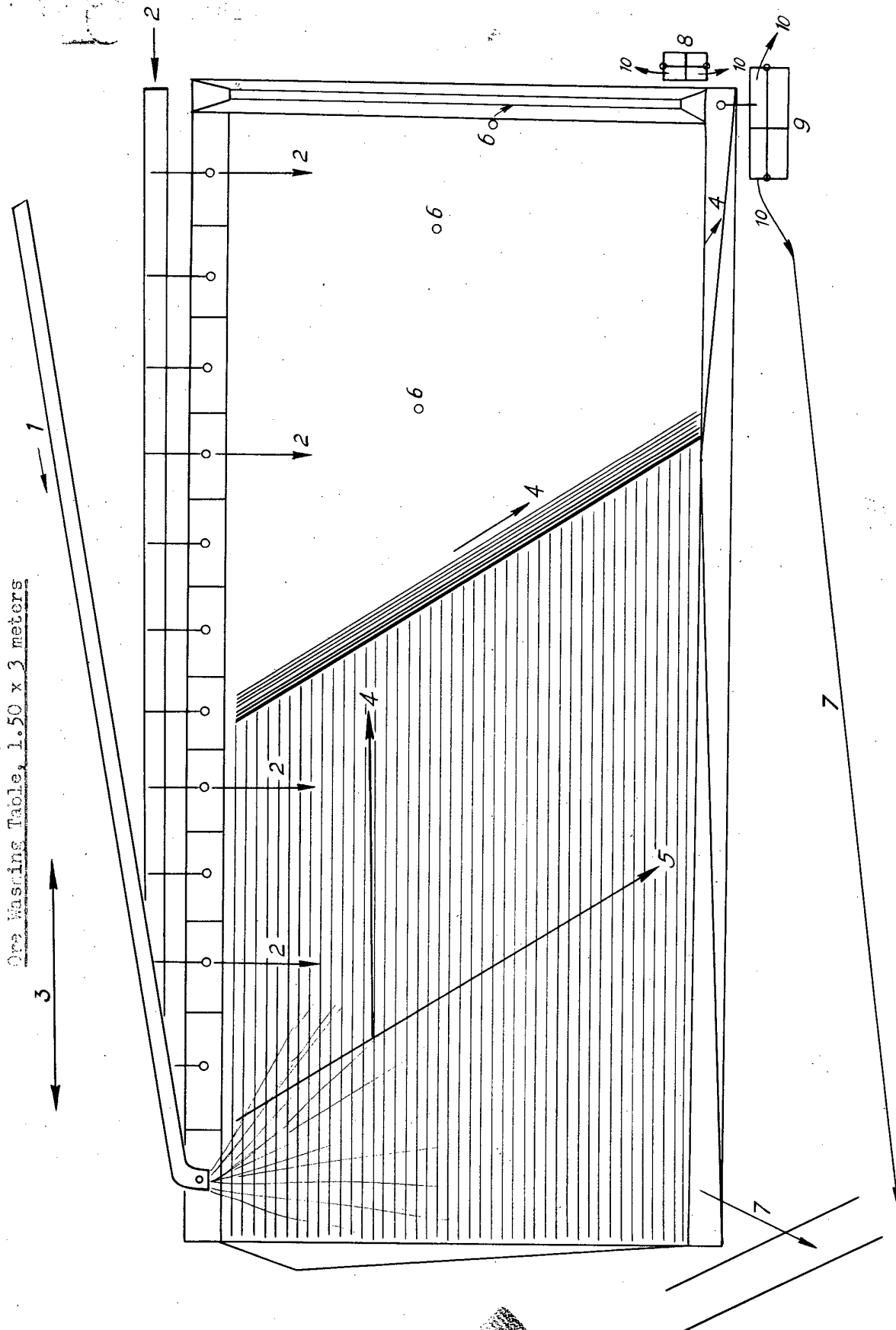
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Annex 13

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Attachment 13

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- 2 -

Ore Washing Table

Legend:

- 1 Route of ore arriving from the old ore washing plant
- 2 Injection of water
- 3 Direction in which the washing table may be moved
- 4 Flow of radioactive material
- 5 Flow of barren material
- 6 Ore lumps of excessive size
- 7 Flow of barren material
- 8 Container for coarse material
- 9 Radioactive material sent to the test station of the old ore dressing plant
- 10 Flow-off of water

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